



IT 3324: Construction Materials
Department of Industrial Technology

Instructor Information

Prof. Keith Nixon

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Class Times and Place

Lecture: Online

Office Hours: By Appointment Only

Catalog Description

A detailed look at an overview of the various materials us in construction. This course is designed to explore common construction materials and their behaviors, properties, and uses.

Course Description

Be sure to check Blackboard site regularly for class notes, assignments, and special announcements. Reading assignments will be given from the required textbook. The reading assignments, discussion boards, and homework will form the basis for the quizzes and tests given in the class. Tests will consist of a comprehensive multiple-choice section covering textbook material. Quizzes will be given weekly in the same multiple-choice format.

Course Outcomes

Following completion of this course, you will be able to exhibit strong technical understanding of the basic materials used in construction today. You will be able to demonstrate an understanding of wood, steel, concrete, masonry, waterproofing, roofing, window glazing, and more.

Required Materials

Textbook

Building Construction: Principles, Materials, Systems, 3rd Edition by Madan Mehta and Walter Scarborough and Diane Armpriest, Pearson; 3rd Edition ISBN-10: 0-13-445417-0 ISBN-13 978-0-13-445417-7

Time Commitment

Students should be prepared to spend approximately **3-5 hours per week outside of class** on assignments that will include: Reading Assignments, completing assignments, class projects, and studying for tests and quizzes.

Attendance and Late Assignment Policy

All assignments are due on posted due dates. NO LATE ASSIGNMENTS WILL BE ACCEPTED.

Participation, Attendance, and other assignments

A high degree of engagement is expected and will contribute to your learning as an active participant. This includes interacting with the instructor and other students, completing outside of class assignments and readings, and being prepared to participate in discussions. This class is the beginning of your journey to becoming a professional. Evidence of professionalism includes collegial attitude, participation, and punctuality.

Personalized assignments can be requested in the form of tailored exercises for each individuals' career/degree path. These will be in the form of extra credit or assignment substitute. Job site visits to provide a more detailed understanding of construction materials can also be arranged for credit.

Evaluation

A student's grade will be determined based on the following percentages:

60% - Discussion Boards or Journals

25% - Quizzes

15% - Final Project

Grading Scale: 100-90 = A, 89-80 = B, 79-70 = C, 69-60 = D, 59-0 = F

All tests and quizzes will be OPEN BOOK.

Code of Classroom Conduct

- Maintain integrity on all assignments and tests
- Participate in all weekly discussions
- Turn in Assignments on time
- THERE WILL BE NO LATE WORK ACCEPTED.

Reasonable Accommodation Statement

It is the SRSU policy to provide reasonable accommodation to students with disabilities. If you would like to request such accommodations because of physical, mental, or learning disabilities, please contact the ADA coordinator in Student Services: Ferguson 112, 837-8203.

Course Outline

WK #	Subjects
1	Introduction to course, Schedule Office Hours Visit
2	Chapter 13 – Materials for Wood Construction I Chapter 14 – Materials for Wood Construction II
3	Chapter 15 – Wood Light-Frame Construction I Chapter 16 – Wood Light Frame Construction II
4	Chapter 18 – Material Steel and Steel Components
5	Chapter 21 – Lime, Portland Cement, and Concrete Chapter 22 – Concrete Construction I
6	Chapter 23 – Concrete Construction II
7	Chapter 24 – Masonry Materials I Chapter 25 – Masonry Materials II
8	Final Project Rough Draft Due
9	Chapter 28 – Exterior Wall Cladding II Chapter 29 – Exterior Wall Cladding III
10	Chapter 30 – Glass, Glazing, and Light-Transmitting Plastics
11	Chapter 32 – Exterior Wall Cladding IV
12	Chapter 33 – Roofing I
13	Chapter 34 – Roofing II
14	Final Project Due
15	Chapter 35 – Stairs Chapter 37 - Ceilings
16	All Assignments Final

Note: Class schedules subject to change